

# DDC RESEARCH FORUM



## "Acute high fat diet feeding interferes with macrophage supported intestinal barrier repair"



**Andrea  
McAlester, Ph.D.**


Instructor  
Pathology and Immunology  
Baylor College of Medicine

**About this seminar:** These studies demonstrate that lipids derived from the HFD support defective resolution of intestinal injury in mice by disrupting macrophage clearance of apoptotic neutrophils.

**References:** Khalifeh-Soltani A, McKleroy W, et al. Mfge8 promotes obesity by mediating the uptake of dietary fats and serum fatty acids. *Nat Med.* 2014 Feb;20(2):175-83. doi: 10.1038/nm.3450. Epub 2014 Jan 19. PMID: 24441829; PMCID: PMC4273653.

Zhang, Y., Brenner, M., Yang, WL. et al. Recombinant human MFG-E8 ameliorates colon damage in DSS- and TNBS-induced colitis in mice. *Lab Invest* 95, 480-490 (2015). <https://doi.org/10.1038/labinvest.2015.32>

Greenlee-Wacker MC. Clearance of apoptotic neutrophils and resolution of inflammation. *Immunol Rev.* 2016 Sep;273(1):357-70. doi: 10.1111/imr.12453. PMID: 27558346; PMCID: PMC5000862.

 **Baylor Main Campus  
DeBaKey Building  
Auditorium M112**

Refreshments provided.



<https://bcm.zoom.us/>  
**Meeting ID: 951 0349 9512**  
**Password: 2020**



**SEPT 15**  
**4:00 PM**

**For more info:** Sara Tristan, DDC Administrator, [escamill@bcm.edu](mailto:escamill@bcm.edu), (713) 798-3478